



Gp2644 2644

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: : Group Art Unit: 2644
Thomasson et al. : Examiner: Singh, Ramnandan P
Serial No.: 09/824,359 : Date: February 28, 2005
Filed: April 2, 2001 :
For: *Dual Threshold Correlator*

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AMENDMENT

Hon. Commissioner for Patents
Alexandria, Virginia 22313

SIR:

In response to the Office Action dated December 1, 2004, kindly amend the
above-identified application as follows.

AMENDMENTS TO DESCRIPTION

Please replace the paragraph beginning at page 4, line 16, with the following amended paragraph.

As illustrated in FIG. 1, the encoder invention operates by delaying a signal a small amount, less than fifty milliseconds, to produce an echo, herein called a "shadow" to distinguish it from perceptible echoes, and adding the shadow to the original signal. The signal, and the delay, can be analog or digital.

Please replace the paragraph beginning at page 4, line 16, with the following amended paragraph.

FIG. 4 is a block diagram of a shadow encoder constructed in accordance with the invention[[,]]. A signal on input 41 is coupled to band pass filters 42, 43, 44, 45, and 46, each having a different center frequency. The output from each filter is coupled to a shadow encoder as shown in FIG. 1. A single shadow (delay) is shown for the sake of simplicity but more than one shadow can be used per band. The output of each encoder is coupled to summation network 48. The output of summation network 48 is the output of encoder 40.